

N A N O H Y B R I D  
C E R A M I C B L O C K



Flexural strength  
**193-216** MPa

Easy and quick  
**1 DAY** treatment

Inorganic filler rate  
**81** wt%

# WHY NT Mill Hybrid

Aesthetic, high-accuracy hybrid resin block designed for digital dentistry

## • Light-Curing Process

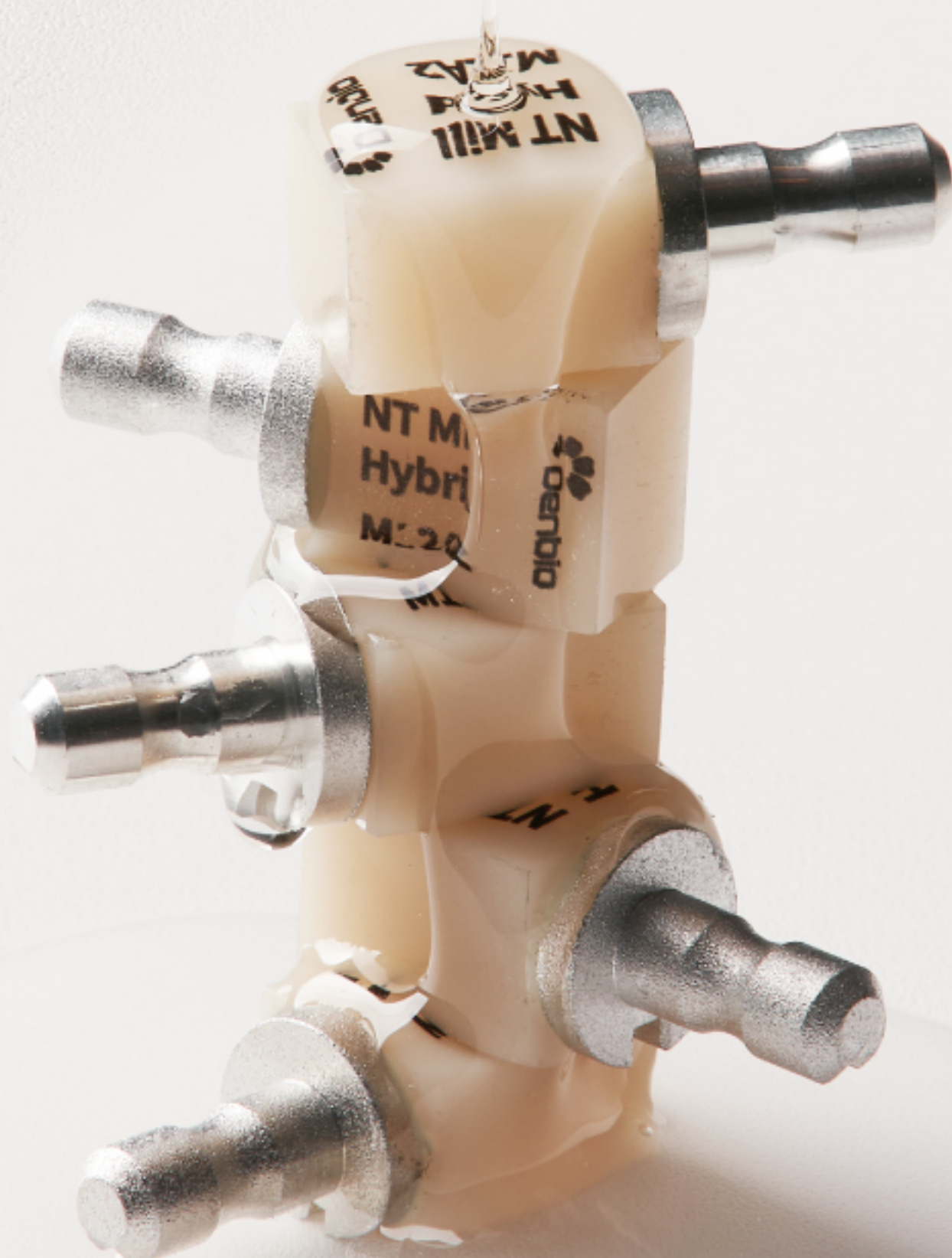
[ Patented photopolymerization technology instead of heat ]

## • Mechanical Strength

- [ High Flexural strength 193 – 216 MPa ]
- [ Filler rate 81 wt% ]
- [ Optimized machinability for CAD/CAM systems ]
- [ Radiopaque ]

## • Optical & Biocompatibility

- [ Exceptional aesthetics and translucency ]
- [ Excellent color stability and discoloration resistance ]



# Features of NT Mill Hybrid

## [ High strength and durability ]

- 81% silane-treated ceramic nanofiller  
→ high flexural/compressive strength
- High fracture resistance

## [ Photopolymerization technology ]

- Natural tooth-like translucency and color stability



## [ Excellent machinability ]

- Minimal chipping, deformation, and warpage

## [ Time saving and efficient ]

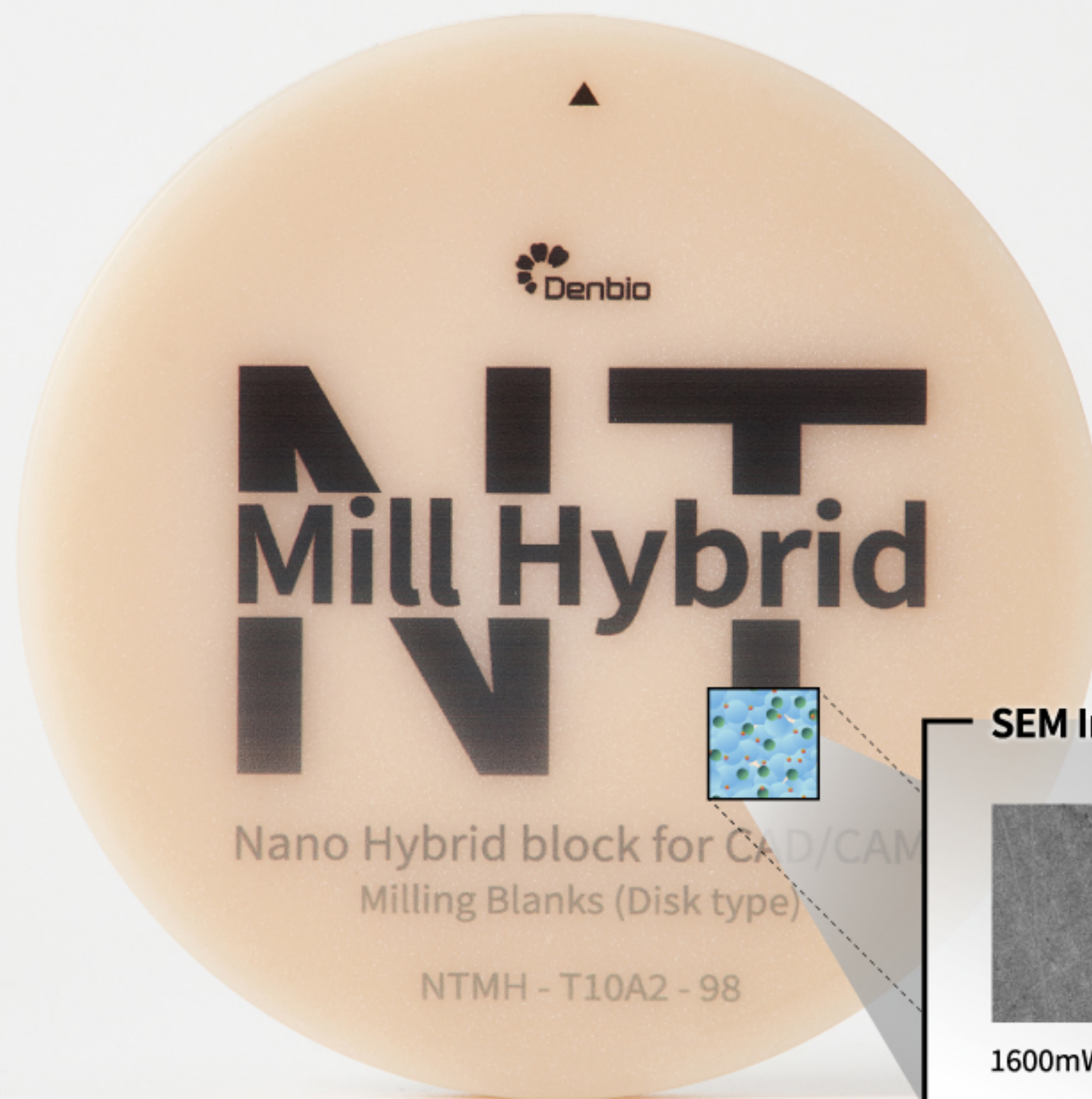
- No firing required
- Chairside-ready immediately after CAD/CAM processing

## [ Cost-effective ]

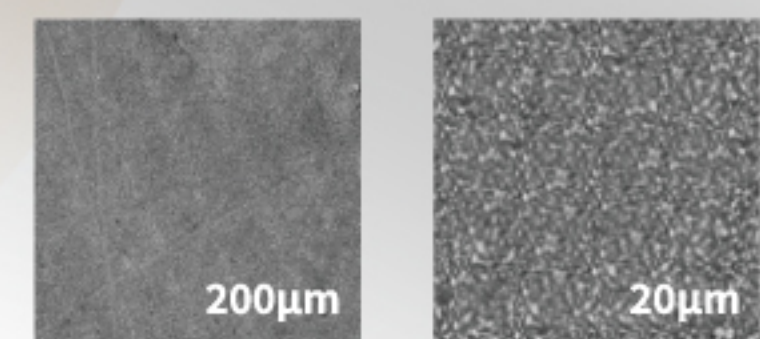
- Faster workflow than zirconia

# Uniform structure through photopolymerization

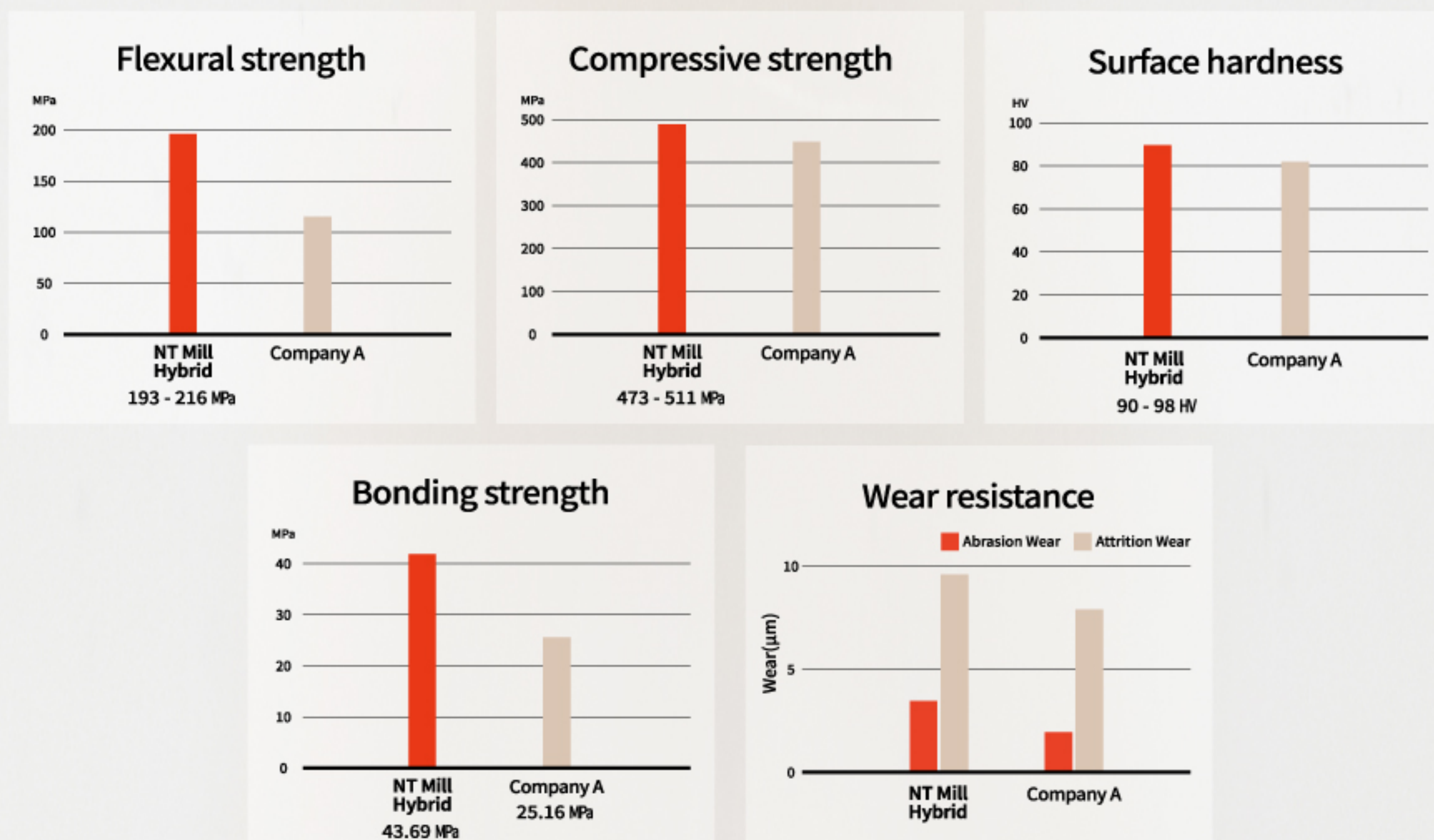
Stable structure with uniformly dispersed ceramic filler particles and no agglomeration.



SEM Image polymerized surface



1600mW/cm<sup>2</sup> for 4hr



# Simple process, strong to last

The ideal solution for balancing  
esthetics and machinability

- Versatile applications : **inlays, onlays, veneers**
- Available in various size and multilayers : **16T, 18T, 20T, 22T, 25T**

## Clinical Cases



# Ordering Information



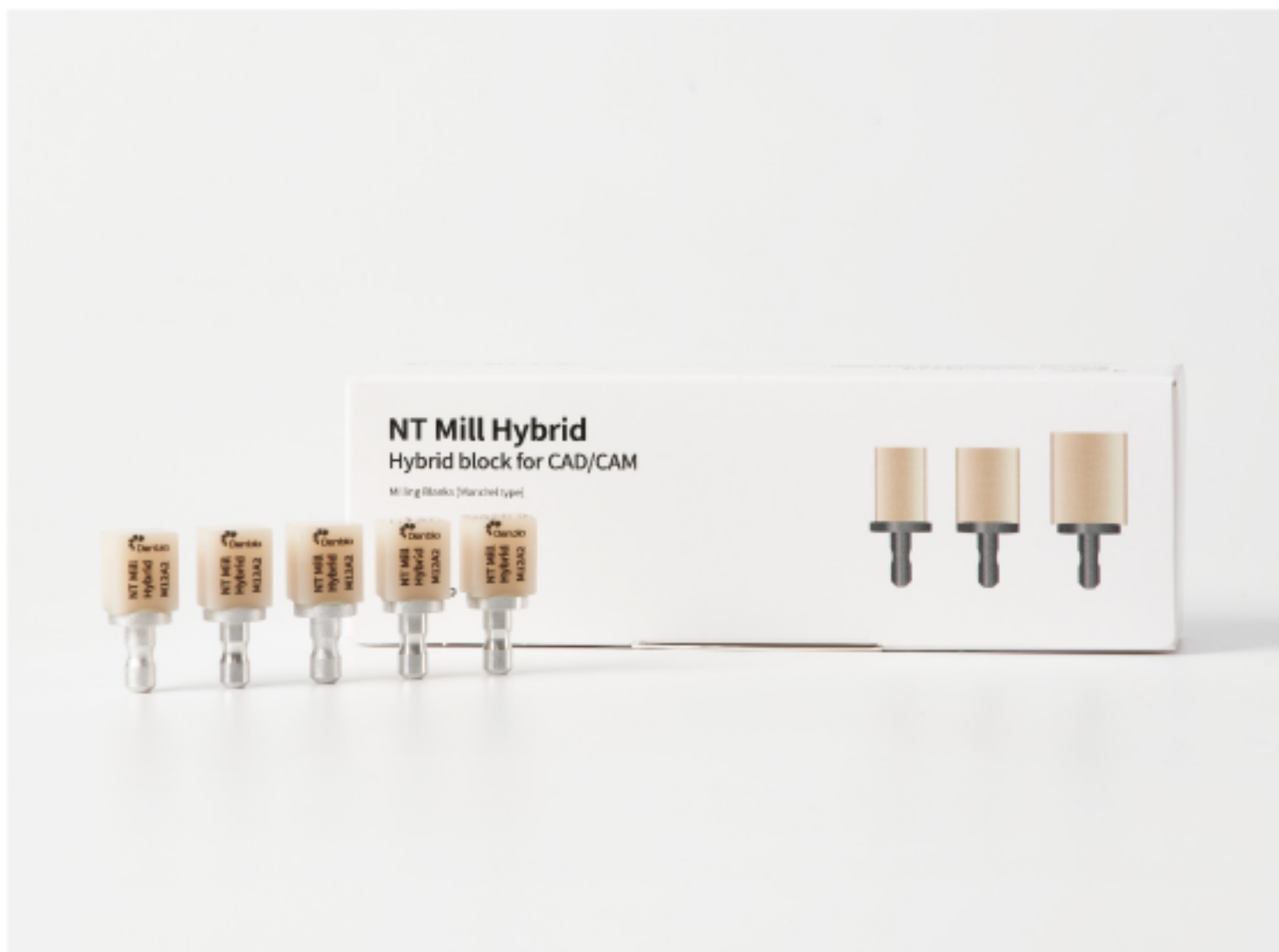
## DISK TYPE

- SHADE — A1 A2 A3 A3.5 OW
- SIZE (Ø98mm) — 8T 10T 12T 14T 16T 18T 20T 22T 25T



## DISK TYPE multi layer

- SHADE — A2 multi-layer ( A1 / A2 )  
A3 multi-layer ( A2 / A3 )  
A3.5 multi-layer ( A2 / A3.5 )
- SIZE (Ø98mm) — 14T 16T 18T 20T 22T 25T



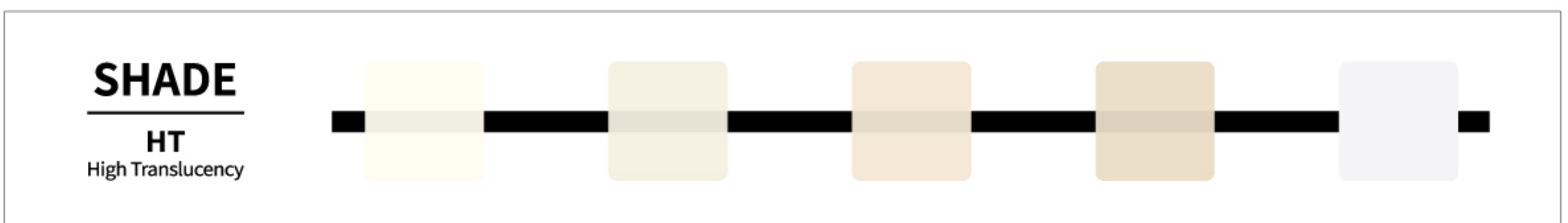
## MANDREL TYPE

- SHADE — A1 A2 A3 A3.5 OW
- SIZE — Thickness x Width x Height (mm)
- 10 10 x 8.5 x 15 (mm)
- 12 12.2 x 10.2 x 15 (mm)
- 14 14.5 x 13.5 x 18 (mm)



## MANDREL TYPE multi layer

- SHADE — A2 multi-layer ( A1 / A2 )  
A3 multi-layer ( A2 / A3 )  
A3.5 multi-layer ( A2 / A3.5 )
- SIZE — Thickness x Width x Height (mm)
- 14 14.5 x 13.5 x 18 (mm)

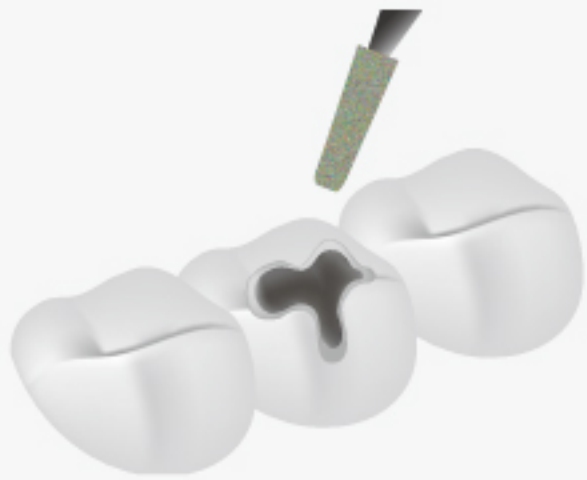


# How to Use

## NT Mill Hybrid

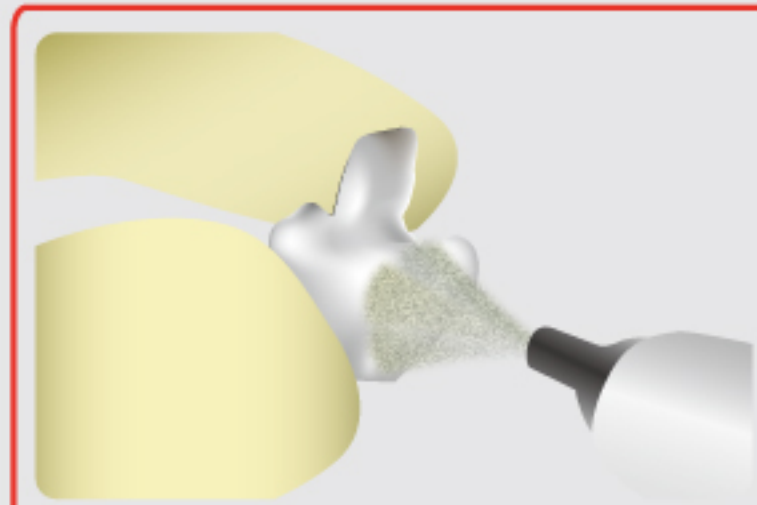
## RESTORATION GUIDE

### 1. Try-in



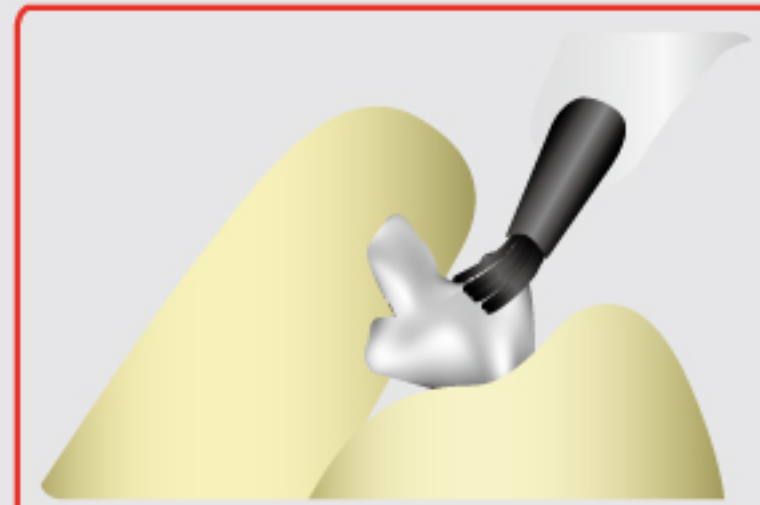
Check the occlusion and proximate status between the teeth and prosthesis.

### 2. Sand blasting or HF etching



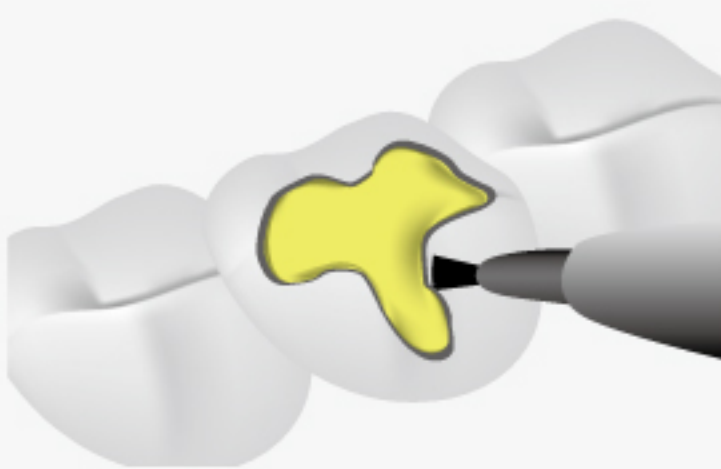
Sandblasting : sandblast with (25-30um) aluminium oxide by 2bar and clean with air syringe.

OR



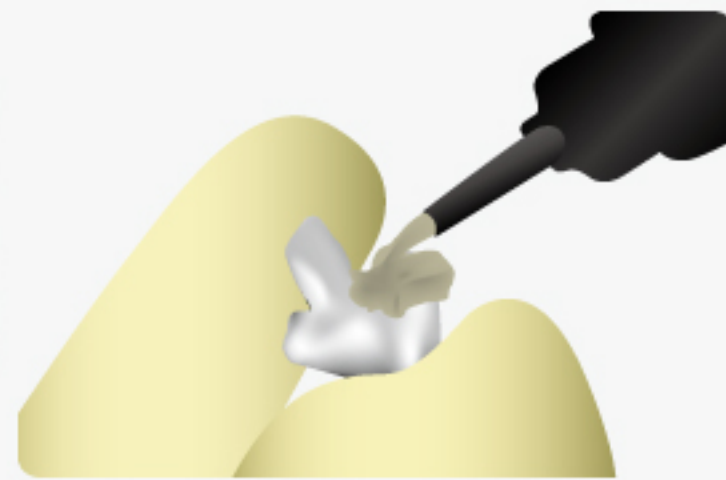
HF etching : apply 5% HF etching on the surface of prosthesis and dry it.

### 3. Etching and bonding



Etch the surface of the tooth and apply bonding agent.

### 4. Cementation



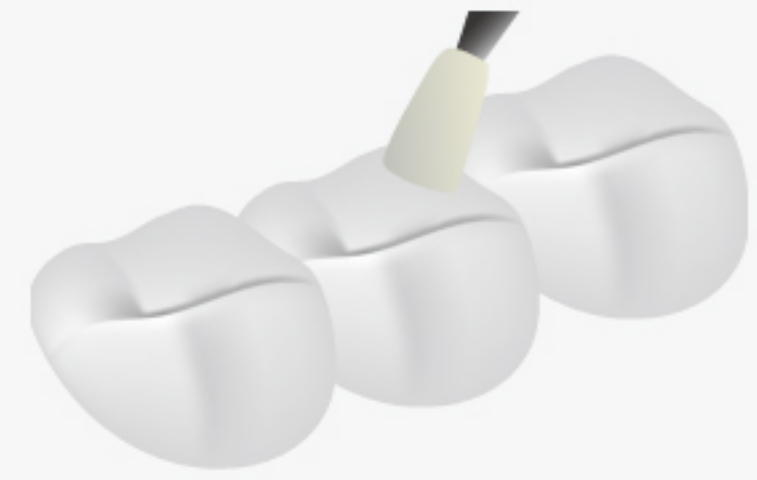
Apply the resin cement.

### 5. Occlusion checking



Check the occlusion with articulation paper.

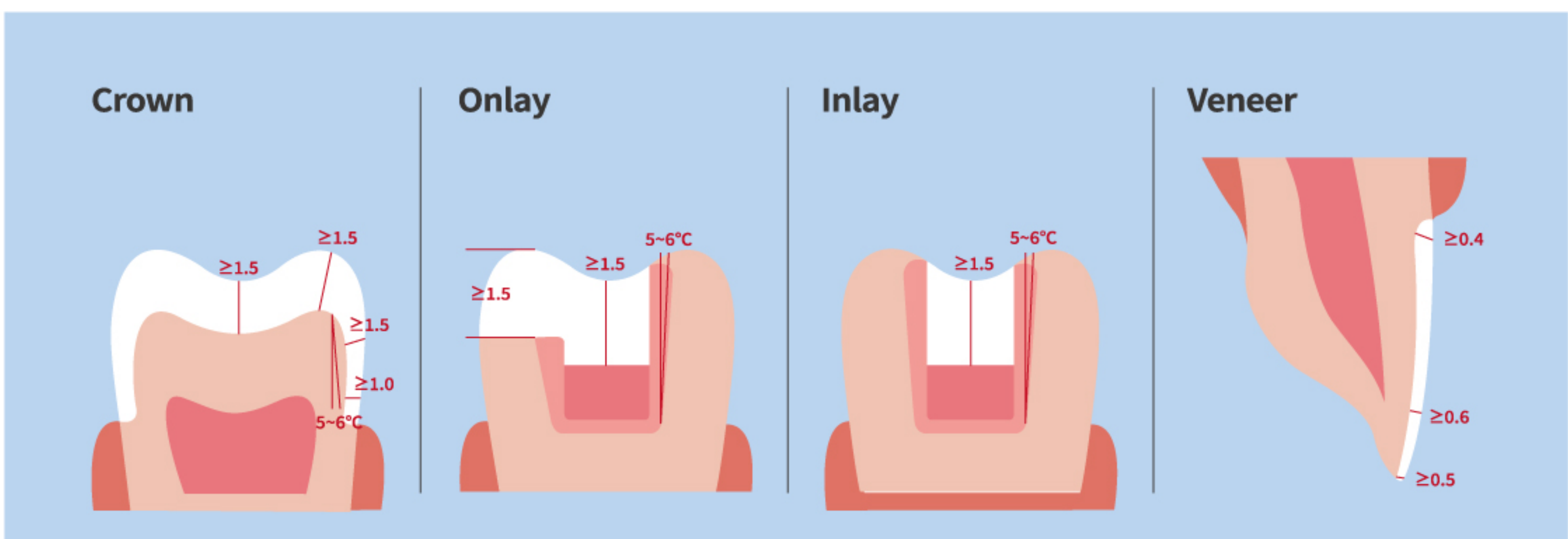
### 6. Final restoration



Place it properly and remove the residue of resin cement around the tooth.

## NT MILL HYBRID GUIDELINES FOR REDUCTION

- Follow guidelines of Nt Mill Hybrid.
- Inside the edge and angle shaped round.
- Recommended to remove round shoulder.
- Recommended to apply more than the minimal thickness described on guidelines.



## BETTER CHOICE FOR DENTAL HEALTH

Denbio offers high-quality dental biomaterials. Developing and producing uncompromising quality products is the value that Denbio seeks. We do extensive research to supply lab developed bio materials and ingredients and we only use ingredients that have proven functional and safe. Denbio supplies products that meet the true needs of customers, and provides products with excellent quality and functionality through in-depth research.